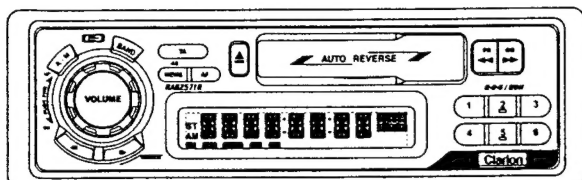


Service Manual



RDS-EON/FM/MW/LW Radio Cassette Combination

Model **RAB2571R**

(PE-1641E-A/illumination: Amber)

(PE-1641E-B/illumination: Green)

■ SPECIFICATIONS

Radio section

Tuning system: PLL synthesizer tuner
Receiving frequencies: FM 87.5 to 108MHz
MW 531 to 1,602kHz
LW 153 to 279kHz

Tape deck section

Wow & Flutter (WRMS): 0.1%
Channel Separation (1kHz): 45dB
Signal to noise ratio: 120μs(normal) 52dB
Frequency response (± 3dB): 120μs(normal) 30Hz to 16kHz

General

Power supply voltage: DC 14.4V (10.8 to 15.6V allowable)
Current consumption: Less than 10A
Speaker impedance: 4Ω (4Ω to 8Ω allowable)
Dimensions (mm): W 178 x H 50 x D 152
Weight: 1.3kg (2.87lb)

■ NOTE

1. We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.

■ FEATURES

1. Electronic quartz-locked PLL tuning
2. AM/FM bands - 1 AM, 3 FM
3. Electronic audio controls (volume/bass/treble/balance/fader)
4. 120W (30W x 4ch) maximum power output
5. DIN chassis with detachable control panel

■ COMPONENTS

PE-1641E-A (AMBER)

PE-1641E-B (GREEN)

Main unit		1
Mounting bracket	300-7742-20	1
DCP case	335-5734-20	1
Parts bag		
Removal Key	331-2497-20	2
Screw	716-0726-01	1
Spacer	345-3653-01	1

■ To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

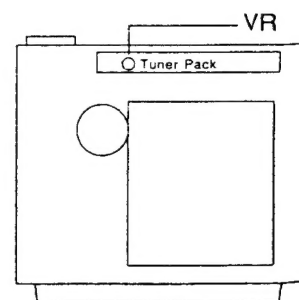
6. Cautions in handling flexible PWB.

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

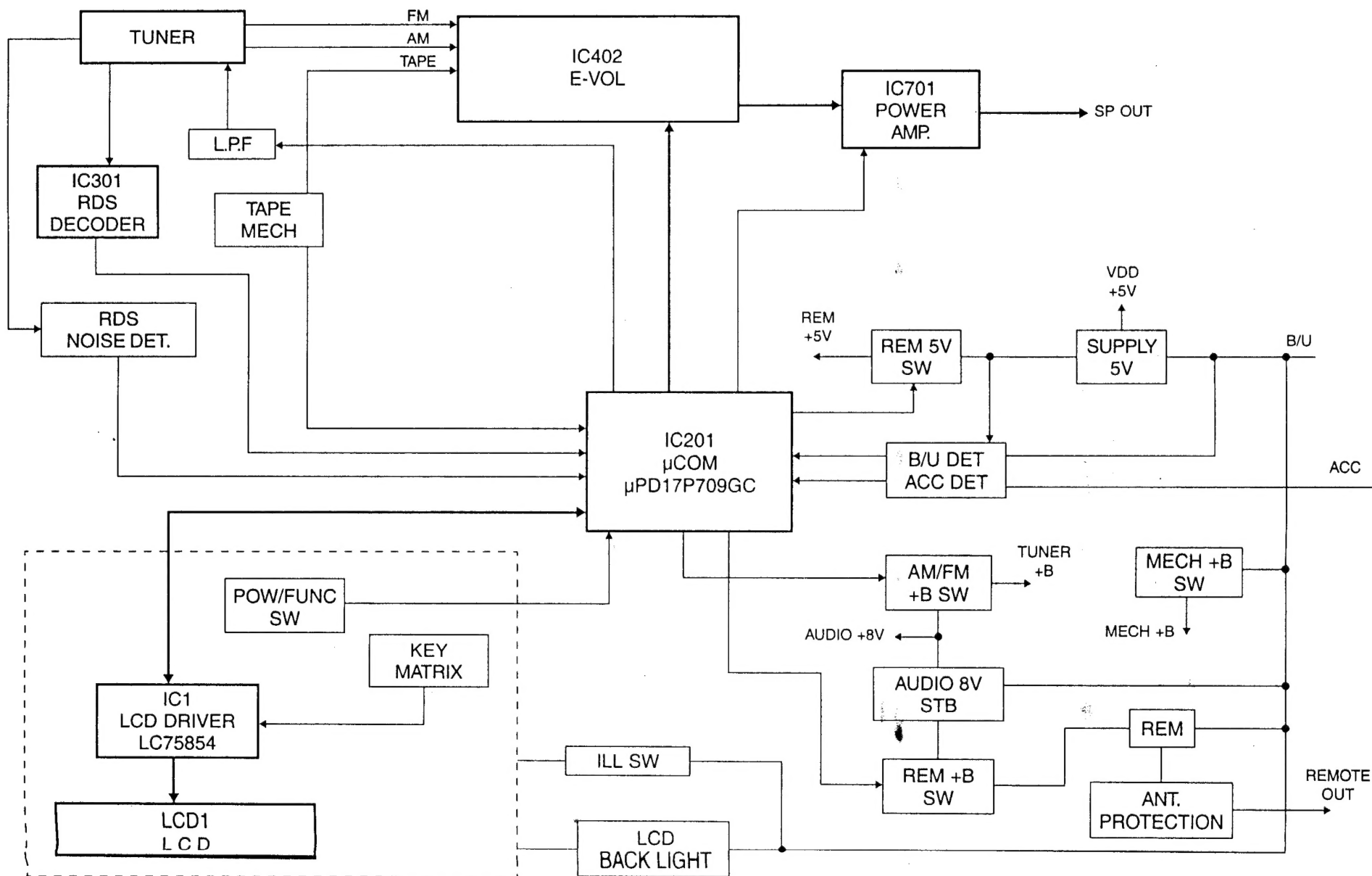
7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

■ ADJUSTMENT

Item	Procedure	Instrument
RDS S-Meter	1. Input the 98.1MHz/30dB (400Hz, 75kHz DEV, AF88%) signal and modulation OFF.	-SSG -Multiplex Signal Generator -Millivoltmeter
	2. Adjust VR on top of the tuner so that the output level at the TP (S-Meter) on main PWB is $3.0 \pm 0.1V$	



Top side of main unit



EXPLANATION OF IC

■ μ PD17708GC-543-3B9 052-1910-10
 RDS Master Micro computer

Outward Form

80 pins, plastic QFP

Terminal Description

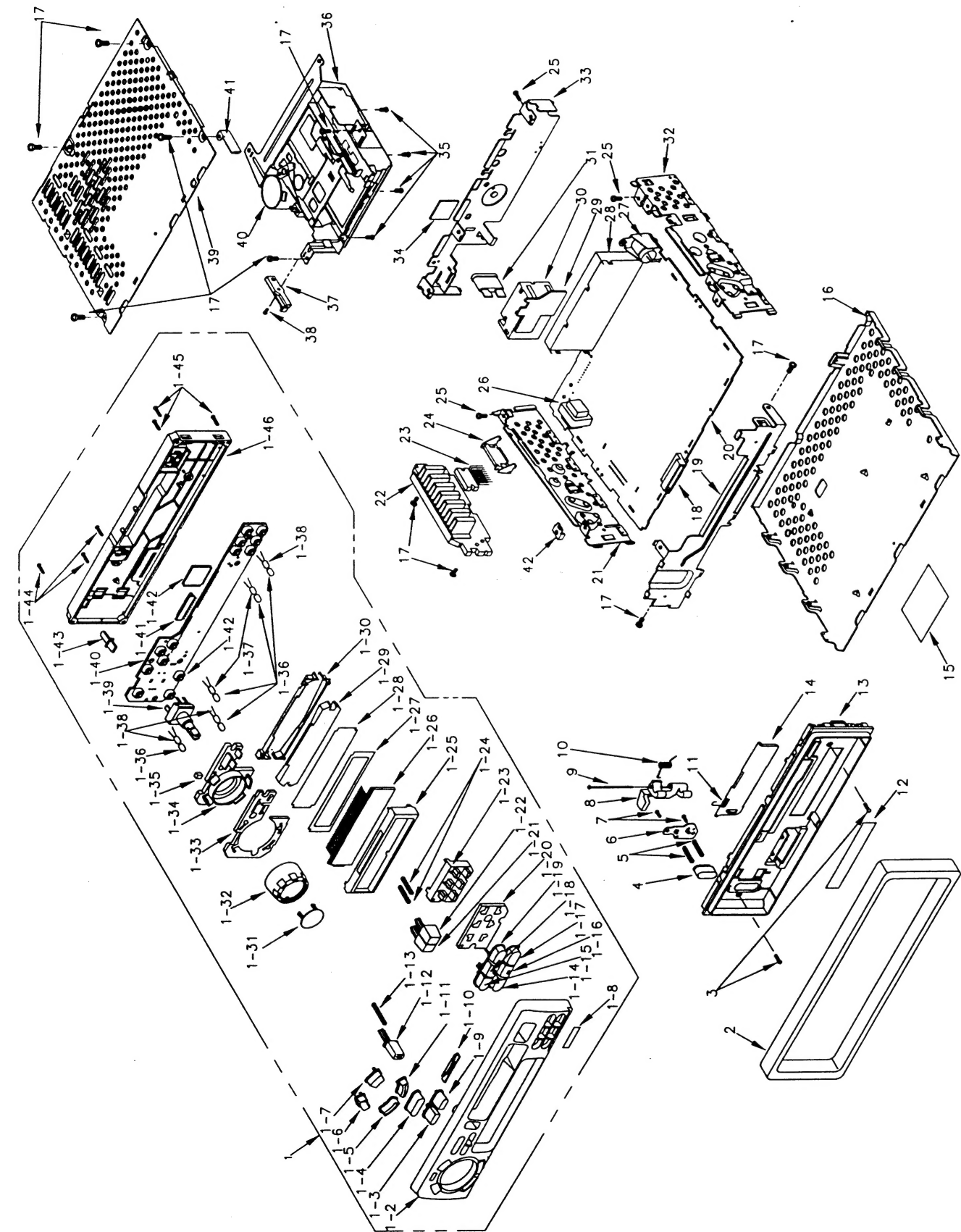
Pin No	Symbol	I/O	Function
1	B/U DET	I	B/U Line Detection
2	KEY INT	I	POWER key input
3	N/C		Not in use
4	E3861/E3860	I	Switching port : LO
5	FM ONLY	I	Switching port : LO
6	SOFT MUTE OFF	O	Output for Tuner Soft Mute
7	N/C	-	Not in use
8	RDS DX/LO	O	During RDS seek LOCAL=LOW
9	SYS MUTE	O	Audio muting Active HI
10	PHONE INT	I	GND
11	TAPE IN	I	Tape Input detection , Active Low
12	FWD/REV	I	Tape mode: FWD=LO, REW=HI
13	FF/REW	I	Tape FF/REW LCD indication, Active LOW
14	MOTOR	O	Power supply +5V for tape-motor switching circuit, Active HI
15	FM DX/LO	O	DX/LOCAL Control port, during LOCAL Active HI
16	RDS MUTE	O	RDS mute output terminal
17	REM+B	O	Audio system voltage supply controller
18	REM+5	O	Power supply control terminal of microcomputer pull up and LCD driver
19	FM CNT	O	FM tuner Voltage supply controller terminal, Active LO
20	AM CNT	O	AM tuner voltage supply controller terminal, Active LO
21	GND		μ -COM GND
22	KEY AD	I	DCP SW detection port (A/D) P ON - P OFF - P ON voltage drop from 4V - 0V in average
23	RDS S-METER	I	RDS S-METER voltage detection terminal
24	RDS NOISE1	I	RDS noise level detection terminal
25	RDS NOISE2	I	GND
26	FM SD	I	FM Station Detector port
27	AM SD	I	AM Station Detector port
28	IF AM	I	AM IF Count
29	IF FM	I	FM IF Count
30	VDD		VDD
31	FM OSC		FM Oscillation line
32	AM OSC		AM Oscillation line
33	GND		GND
34	ER OUT0	O	FM VT voltage controller
35	ER OUT1	O	AM VT voltage controller
36	TEST0		GND

Pin No	Symbol	I/O	Function
37	L/M	O	LW / MW switching terminal LW Active HI and MW Active LO
38	ST IND	I	FM ST indicator input terminal LO for light up. Light off in other mode and SEEK
39	RDS DISCHG	O	RDS Noise clear
40	BEEP	O	Not in use
41	N/C		Not in use
42	RDS CLK	I	RDS Clock input terminal
43	IF REQ	O	During SEEK mode, terminal Active HI
44	AM DX/LO	O	AM DX/LO control terminal, LOCAL = HI
45	RDS DATA	I	Data input from RDS decoder
47		-	GND
48		-	GND
49		-	GND
50		-	GND
51		-	GND
52		-	GND
53		-	GND
54		-	GND
55		-	GND
56		-	GND
57		-	GND
58		-	GND
59	N/C	-	Not in use
60	N/C	-	Not in use
61	N/C	-	Not in use
62	LCD CE	O	LCD IC driver enable port
63	VOL DO	O	Interactive data with electronic volume control IC
64	VOL CLK	O	Clock for E-Vol
65	LCD CLK	O	Clock for LCD driver
66	LCD DO	O	Data output to LCD driver
67	LCD DI	I	Data input from LCD driver
68		-	GND
69		-	GND
70		-	GND
71		-	GND
72		-	GND
73		-	GND
74	V REG1		GND terminal for A/D converter
75	GND1		μ -COM GND
76	Xout		4.5MHz terminal for crystal
77	Xin		oscillator
78	CE		μ -COM enable +5V terminal
79	VDD		+5V voltage supply terminal
80	RESET	-	Reset input terminal

Note : This is selected at initial retail setting.

EXPLODED VIEW • PART LIST

Main Section

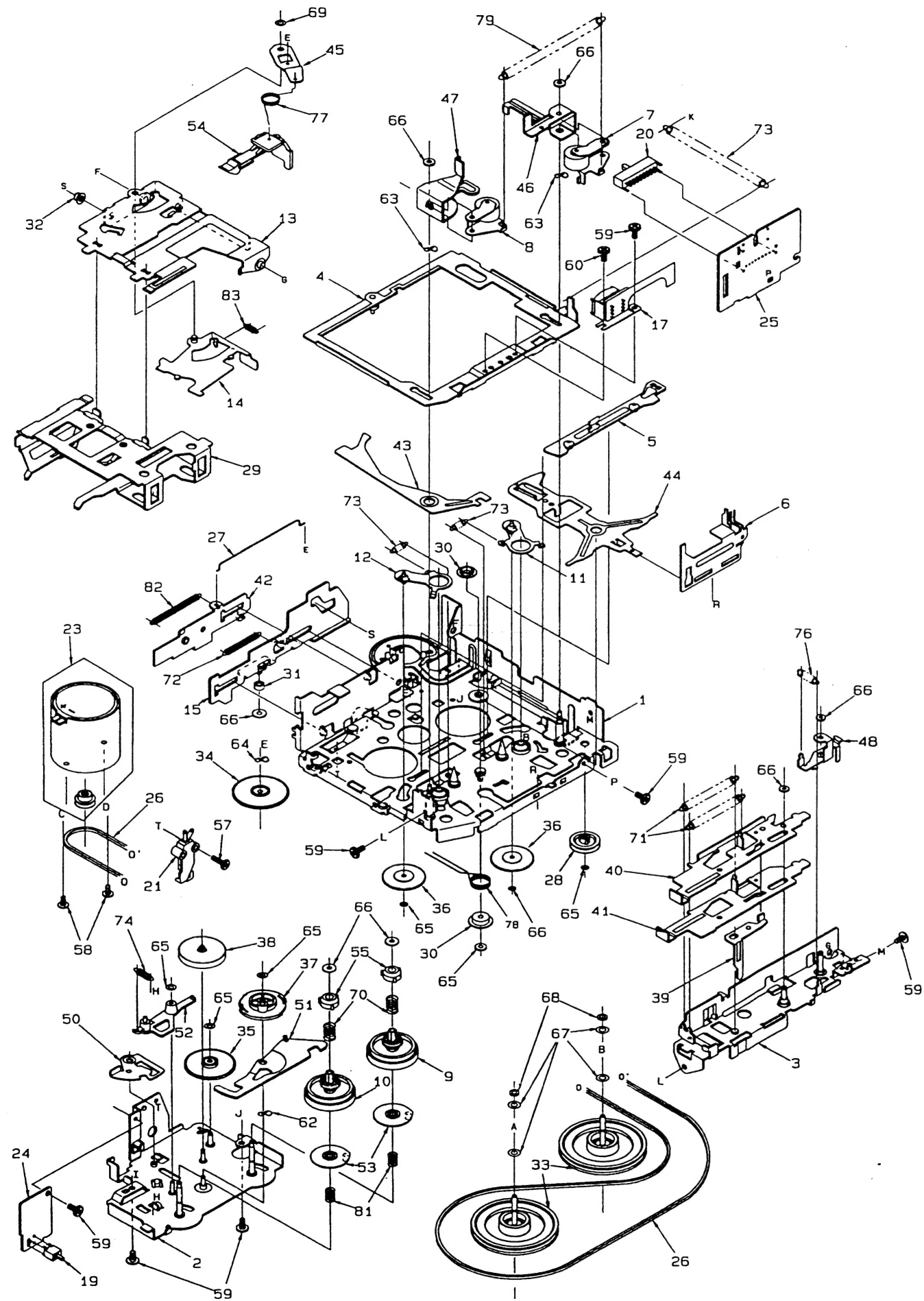


NO.	PART NO.	DESCRIPTION	Q'TY
1	DCP-173-700	DCP-ASSY (PE-1641E-B)	1
1	DCP-174-700	DCP-ASSY(PE-1641E-A)	1
1-2	370-5821-00	ESCUTCHEON (FRONT)	1
1-3	382-5401-00	BUTTON (NEWS)	1
1-4	382-5400-00	BUTTON (TA)	1
1-5	3335-5403-00	BUTTON (SCAN REW)	1
1-6	382-5404-00	BUTTON (AM)	1
1-7	382-5405-00	BUTTON (BAND)	1
1-8	378-0521-00	BADGE (DCP)	1
1-9	382-5399-00	BUTTON (AF)	1
1-10	335-5856-20	DOOR ILLUMI	1
1-11	382-5402-00	BUTTON (SCAN FF)	1
1-12	382-4460-20	BUTTON (EJECT)	1
1-13	750-3171-01	SPRING (EJECT)	1
1-14	382-5409-00	BUTTON (4)	1
1-15	382-5406-00	BUTTON (1)	1
1-16	382-5410-00	BUTTON (5)	1
1-17	382-5411-00	BUTTON (6)	1
1-18	382-5407-00	BUTTON (2)	1
1-19	382-5408-00	BUTTON (3)	1
1-20	345-8247-00	SPONGE (RIGHT)	1
1-21	382-4462-20	BUTTON (REW)	1
1-22	382-4461-20	BUTTON (FF)	1
1-23	335-6017-00	ILLUMI PLATE (RIGHT)	1
1-24	750-3138-01	SPRING (FF/REW)	1
1-25	331-2611-20	LCD COVER	1
1-26	379-1066-41	INDICATOR	1
1-27	347-5366-20	FILM	1
1-28	347-5365-20	SHADE	1
1-29	335-5308-20	ILLUMI (LCD)	1
1-30	335-5309-21	LCD HOLDER	1
1-31	335-6018-00	KNOB BADGE	1
1-32	380-5447-00	KNOB (VR)	1
1-33	345-8246-00	SPONGE (LEFT)	1
1-34	335-6016-00	ILLUMI PLATE (LEFT)	1
1-35	345-8339-00	SPONGE	1
1-36	345-4441-58	LAMP CAP (AMBER) (PE-1641E-A)	5
1-36	345-2830-20	LAMP CAP (GREEN) (PE-1641E-B)	5
1-37	017-0441-00	PILOT LAMP	2
1-38	017-0410-00	PILOT LAMP	3
1-39	016-9900-63	VR SWITCH	1
1-40	039-1425-00	SWITCH PWB (WITHOUT COMPONENT)	1
1-41	076-0522-00	PLUG	1
1-42	013-6002-50	TACT SWITCH	13
1-43	382-5173-00	BUTTON (RELEASE)	2

NO.	PART NO.	DESCRIPTION	Q'TY
1-44	716-1721-00	P-TIGHT SCREW	6
1-45	335-6015-00	REAR COVER	1
2	370-9006-25	ESCUTCHEON (OUTER)	1
3	716-1792-00	M/C SCREW	2
4	382-4078-20	BUTTON (PUSH-OUT)	1
5	750-3173-00	SPRING (DCP OUT)	2
6	331-0588-30	SPRING HOLDER	1
7	716-0778-00	WAVE SCREW	2
8	335-5853-00	HOOK	1
9	341-1627-20	SHAFT	1
10	750-3174-00	SPRING	1
11	750-3343-20	SPRING (DOOR)	1
12	291-0074-00	STICKER (SECURITY)	1
13	370-5779-00	INNER-ES	1
14	320-0526-70	DUST PROOF CVR	1
15	286-9132-00	SETPLATE	1
16	304-0460-20	LOWER COVER	1
17	731-3006-80	TAP TIGHT	10
18	074-1112-00	OUTLET SOCKET	1
19	309-0723-20	FRONT PLATE	1
20	039-1385-00	MAIN PWB (WITHOUT COMPONENT)	1
21	305-0274-20	SIDE COVER (LEFT)	1
22	313-1751-20	HEAT SINK	1
23	051-2013-00	IC (POWER)	1
24	331-2255-30	IC HOLDER	1
25	714-3006-81	M/C SCREW	3
26	009-9006-60	CHOKE	1
27	092-9000-00	ANT RECEPT	1
28	880-2080B	TUNER BLOCK	1
29	039-1383-00	ISO PWB (WITHOUT COMPONENT)	1
30	074-1115-00	OUTLET SOCKET (ISO)	1
31	060-0057-56	AUTO FUSE (10A)	1
32	305-0275-20	SIDE COVER (RIGHT)	1
33	307-0628-20	REAR PLATE	1
34	347-5943-20	SHADE	1
35	714-3004-81	M/C SCREW	4
36	331-2610-20	MECH-BRKT	1
37	335-5299-21	SPACER (EJECT)	1
38	714-2604-81	M/C SCREW (EJECT)	1
39	303-0472-20	UPPER COVER	1
40	930-0726-80	TAPE-MECH	1
41	331-2744-00	STOPPER	1
42	331-2648-20	SPACER	1

EXPLODED VIEW • PARTS LIST

Tape mechanism section: 930-0726-80



NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	960-4421-00	DECK ASSY	1	41	630-2516-00	REW LEVER-DCP	1
2	930-4424-00	BOTTOM ASSY	1	42	630-2754-00	EJECT LEVER-DCP	1
3	960-4182-04	FRAME ASSY	1	43	630-2499-01	CHANGE LEVER	1
4	960-4423-00	HEAD-P-ASSY	1	44	630-2501-02	CHANGE PLATE	1
5	960-4186-02	FF-REW-ASSY	1	45	630-2419-02	SWING ARM	1
6	960-4427-00	HEAD-SW-ASSY	1	46	630-2505-02	FF-REW-LINK	1
7	960-4188-03	ROLLER ASSY F	1	47	630-2506-05	RELEASE LINK	1
8	960-4189-03	ROLLER ASSY R	1	48	630-2507-04	LOCK LINK	1
9	960-4190-09	REEL ASSY F	1	50	630-2529-02	MUTE PLATE	1
10	960-4191-09	REEL ASSY R	1	51	631-1958-05	CHECK LINK	1
11	960-4192-02	IDLER ASSY F	1	52	631-1959-01	CHANGE LINK	1
12	960-4193-02	IDLER ASSY R	1	53	631-1961-03	CHECK PLATE	2
13	960-4422-00	GUIDE ARM ASSY	1	54	631-0658-01	PACK STOPPER	1
14	960-4141-04	OFF ARM ASSY	1	55	631-1967-00	SLIDE BUSH	2
15	960-4425-00	EJECT P-ASSY	1	57	714-2008-81	MACHINE SCREW	1
17	011-0313-15	HEAD	1	58	716-0484-02	SCREW	2
19	013-3906-00	SWITCH	1	59	716-1471-00	S-TIGHT	7
20	013-3922-00	SWITCH	1	60	716-1473-01	HEAD SCREW	1
21	013-3924-00	SWITCH	1	62	745-0752-00	PLATE SPRING	1
23	SMA-141-100	DC MOTOR ASSY	1	63	745-0756-00	SPRING WASHER	2
24	039-0726-00	PWB (WITHOUT COMPONENT)	1	64	746-0712-03	WASHER	1
25	099-9669-00	PWB (WITHOUT COMPONENT)	1	65	746-0724-00	WASHER	6
26	602-0115-00	BELT	1	66	746-0768-00	WASHER	8
27	750-2860-01	ROD SPRING	1	67	746-0839-00	CAPSTAN WASHER	4
28	604-0042-01	TENSION PULLEY	1	68	746-0869-00	WASHER	2
29	606-0100-05	PACK GUIDE	1	69	746-0622-01	WASHER	1
30	610-0334-01	HEAD ROLLER B	1	70	750-2564-01	SLIDE SPRING	2
31	610-0363-00	EJECT P-ROLLER	1	71	750-2904-02	FF-REW SPRING	2
32	610-0337-00	GUIDE A-ROLLER	1	72	750-2858-01	EJECT P-SPRING	1
33	611-0090-04	FLYWHEEL	2	73	750-2906-00	IDLER SPRING	2
34	613-0272-10	GEAR A	1	74	750-2907-03	CHANGE L-SPRING	1
35	613-0273-02	GEAR B	1	75	750-2908-02	HEAD SPRING	1
36	613-0274-02	IDLER GEAR	2	76	750-2909-04	ROD SPRING	1
37	613-0275-03	CHANGE GEAR	1	77	750-2861-01	SLOT-IN SPRING	1
38	613-0277-02	CHECK GEAR	1	78	750-2911-01	HOLDING SPRING	1
39	630-2488-02	SELECT LEVER	1	79	750-2912-01	PINCH SPRING	1
40	630-2715-00	FF LEVER-DCP	1	81	750-2919-03	CHECK SPRING-R	2
				82	750-2857-02	EJECT L-SPRING	1
				83	750-2859-00	OFF ARM SPRING	1

ELECTRICAL PARTS LIST

Main PWB Section (B1)

Note: Several different parts of the same reference number are alternative parts.
One of those parts is used in the set.

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 101	176-1801-00	18pF CH	C 606	178-2732-05	0.027μF	D 724	001-0466-00	S5688B
C 102	178-1042-05	0.1μF	C 607	182-4763-33	16V-47μF	D 725	001-0466-00	S5688B
C 106	183-1053-62	50V-1μF	C 608	178-2732-05	0.027μF	D 726	001-0466-00	S5688B
C 108	178-3332-05	0.033μF	C 609	182-1073-13	6.3V-100μF	D 727	001-0466-00	S5688B
C 109	178-3332-05	0.033μF	C 610	182-3343-62	50V-0.33μF	D 728	001-0466-00	S5688B
C 110	178-4732-05	0.047μF	C 611	178-4732-05	0.047μF	IC 201	052-1910-10	μPD17708GC
C 113	178-1042-05	0.1μF	C 612	182-1063-32	16V-10μF	IC 301	051-5823-00	LC72723M
C 114	183-2253-62	50V-2.2μF	C 613	182-2253-62	50V-2.2μF	IC 401	051-0350-55	NJM4558M
C 115	178-5622-05	5600pF	C 615	176-5601-00	56pF CH	IC 402	051-5008-00	M62419FP
C 116	178-2732-05	0.027μF	C 616	182-4753-52	35V-4.7μF	IC 601	051-0272-00	LA3161
C 119	178-2232-05	0.022μF	C 619	182-4763-12	6.3V-47μF	IC 701	051-2013-00	TDA7385
C 122	178-1022-05	1000pF	C 620	182-2263-32	16V-22μF	L 101	010-2330-17	5.6μH
C 139	176-5096-00	5pF CH	C 621	178-5622-05	5600pF	L 102	010-2330-36	220μH
C 140	178-1032-05	0.01μF	C 622	178-5632-05	0.056μF	L 103	010-2330-00	0.22μH
C 141	178-1022-05	1000μF	C 623	178-5622-05	5600pF	L 203	010-2330-36	220μH
C 148	176-1007-00	10pF CH	C 624	182-1063-32	16V-10μF	L 501	009-9006-60	CHOKE
C 201	176-2201-00	22pF CH	C 625	182-1063-32	16V-10μF	Q 101	102-2458-00	2SC2458
C 202	176-2201-00	22pF CH	C 626	182-2253-62	50V-2.2μF	Q 102	102-2458-00	2SC2458
C 203	176-1011-00	100pF CH	C 628	176-5601-00	56pF CH	Q 103	102-3113-00	2SC3113
C 204	176-1011-00	100pF CH	C 630	182-4753-52	35V-4.7μF	Q 104	102-3113-00	2SC3113
C 205	176-1011-00	100pF CH	C 631	182-2263-32	16V-22μF	Q 301	125-0003-02	RN2202
C 206	176-1011-00	100pF CH	C 632	178-5632-05	0.056μF	Q 302	193-1504-00	2SD1504
C 207	178-1042-05	0.1μF	C 633	178-5622-05	5600pF	Q 304	125-0003-02	RN2202
C 208	178-1032-05	0.01μF	C 634	178-5622-05	5600pF	Q 401	100-1048-00	2SA1048
C 209	176-1011-00	100pF CH	C 635	182-1063-32	16V-10μF	Q 402	100-1048-00	2SA1048
C 212	182-2273-22	10V-220μF	C 636	182-4763-12	6.3V-47μF	Q 404	125-2003-02	RN1202
C 217	176-1011-00	100pF CH	C 638	182-4763-33	16V-47μF	Q 501	100-1048-00	2SA1048
C 218	176-1011-00	100pF CH	C 639	182-1073-13	6.3V-100μF	Q 503	125-0003-02	RN2202
C 224	178-1042-05	0.1μF	C 701	171-1042-06	0.1μF	Q 504	102-2458-00	2SC2458
C 225	178-1032-05	0.01μF	C 702	171-1042-06	0.1μF	Q 505	125-0003-02	RN2202
C 301	182-1063-32	16V-10μF	C 703	171-1042-06	0.1μF	Q 506	102-2458-00	2SC2458
C 302	178-3312-05	330pF	C 704	171-1042-06	0.1μF	Q 507	103-1858-00	2SD1858
C 303	178-1042-05	0.1μF	C 705	176-1011-00	100pF CH	Q 508	103-1858-00	2SD1858
C 304	178-5612-05	560pF	C 706	176-1011-00	100pF CH	Q 512	103-1858-00	2SD1858
C 305	176-2201-00	22pF CH	C 707	176-1011-00	100pF CH	Q 513	103-1858-00	2SD1858
C 306	176-2201-00	22pF CH	C 708	176-1011-00	100pF CH	Q 514	103-1858-00	2SD1858
C 307	178-1042-05	0.1μF	C 709	183-1053-62	50V-1μF	Q 515	101-1240-00	2SB1240
C 401	184-4773-22	10V-470μF	C 710	178-1042-05	0.1μF	Q 516	125-2003-02	RN1202
C 403	178-2232-05	0.022μF	C 711	183-4763-32	16V-47μF	Q 517	100-1048-00	2SA1048
C 405	178-3312-05	330pF	C 713	178-1042-05	0.1μF	Q 518	101-1237-00	2SB1237
C 406	178-3312-05	330pF	D 201	001-0330-00	1SS119	Q 519	125-2003-03	RN1203
C 408	178-2232-05	0.022μF	D 202	001-0330-00	1SS119	Q 520	125-2003-03	RN1203
C 409	182-1063-32	16V-10μF	D 401	001-0330-00	1SS119	Q 521	125-2003-03	RN1203
C 410	178-5612-05	560pF	D 402	001-0330-00	1SS119	Q 601	101-1240-00	2SB1240
C 411	178-5612-05	560pF	D 501	001-0376-35	MTZJ6.2B	Q 602	125-2003-03	RN1203
C 412	178-2232-05	0.022μF	D 502	001-0376-48	MTZJ9.1C	R 101	117-5631-10	1/10W 56kΩ
C 413	178-1032-05	0.01μF	D 503	001-0376-36	MTZJ6.2C	R 103	117-1831-10	1/10W 18kΩ
C 501	178-1032-05	0.01μF	D 504	001-0376-35	MTZJ6.2B	R 104	117-1531-10	1/10W 15kΩ
C 502	183-2273-22	10V-220μF	D 505	001-0376-47	MTZJ9.1B	R 106	117-1031-10	1/10W 10kΩ
C 503	184-2283-32	16V-2200μF	D 507	001-0188-01	1SS1885A	R 107	117-1021-10	1/10W 1kΩ
C 504	172-1041-11	0.1μF	D 508	001-0466-00	S5688B	R 109	117-1031-10	1/10W 10kΩ
C 505	172-4731-11	0.047μF	D 510	001-0330-00	1SS119	R 110	117-1031-10	1/10W 10kΩ
C 506	183-1063-32	16V-10μF	D 511	001-0330-00	1SS119	R 111	117-8231-10	1/10W 82kΩ
C 507	182-2273-22	10V-220μF	D 512	001-0466-00	S5688B	R 112	117-1031-10	1/10W 10kΩ
C 508	182-1063-32	16V-10μF	D 513	001-0330-00	1SS119	R 113	117-1021-10	1/10W 1kΩ
C 509	182-1063-32	16V-10μF	D 514	001-0330-00	1SS119	R 114	117-2221-10	1/10W 2.2kΩ
C 510	182-1063-32	16V-10μF	D 515	001-0330-00	1SS119	R 115	117-3311-10	1/10W 330Ω
C 601	178-1822-05	1800pF	D 518	001-0466-00	S5688B	R 116	111-1031-91	1/4W 10kΩ
C 602	178-1822-05	1800pF	D 601	001-0376-23	MTZJ4.3B	R 117	117-3311-10	1/10W 330Ω
C 603	182-4743-63	50V-0.47μF	D 721	001-0466-00	S5688B	R 118	117-6821-10	1/10W 6.8kΩ
C 604	182-4743-63	50V-0.47μF	D 722	001-0466-00	S5688B	R 119	111-3311-91	1/4W 330Ω
C 605	182-1073-13	6.3V-100μF	D 723	001-0466-00	S5688B	R 120	117-5631-10	1/10W 56kΩ

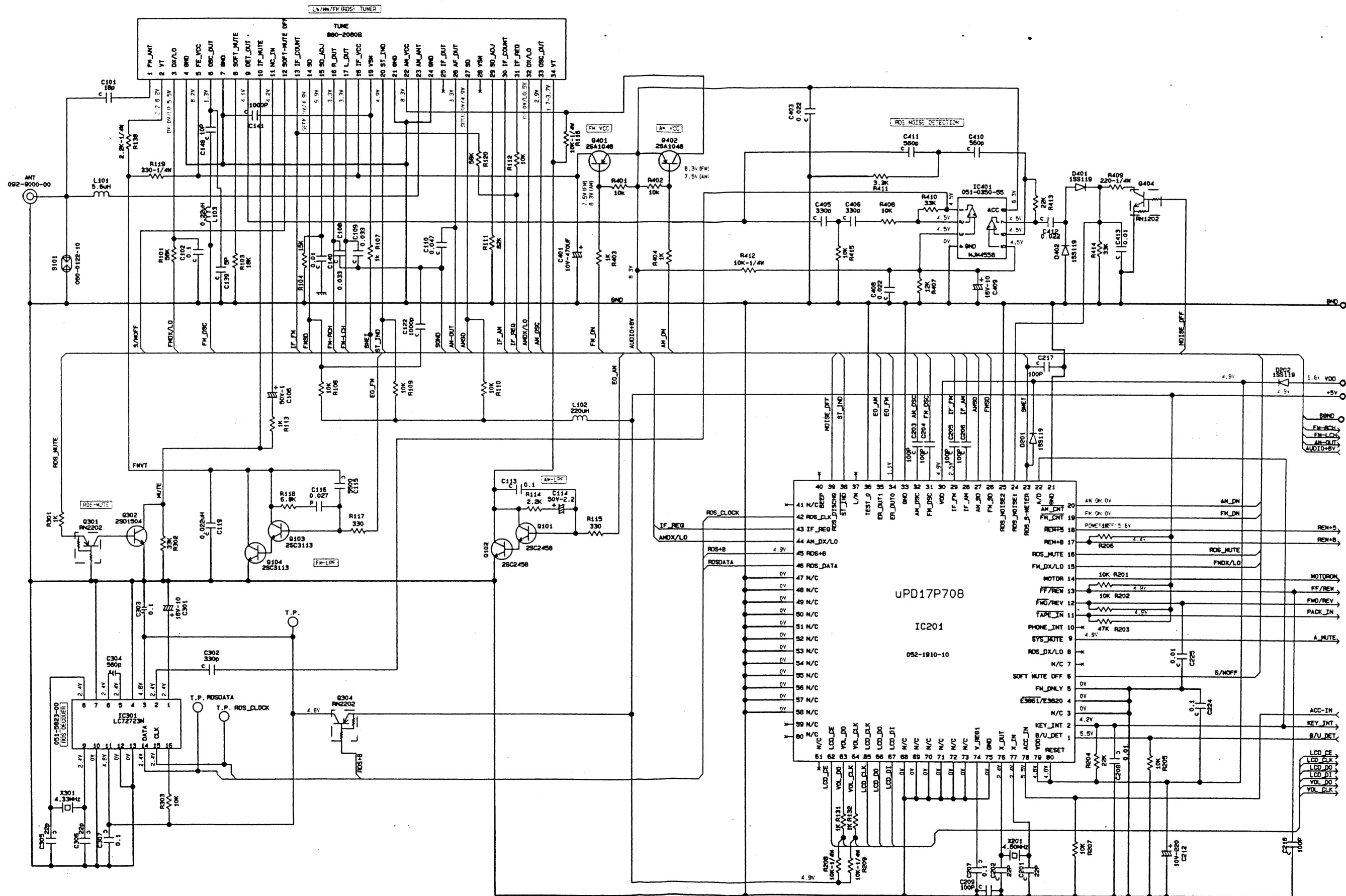
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R 131	117-1021-10	1/10W 1kΩ	R 506	117-2231-10	1/10W 22kΩ	R 611	117-8201-10	1/10W 82Ω
R 132	117-1021-10	1/10W 1kΩ	R 507	111-2291-91	1/4W 2.2Ω	R 614	111-8211-81	1/2W 820Ω
R 138	111-2221-91	1/4W 2.2kΩ	R 508	111-2291-91	1/4W 2.2Ω	R 615	111-1031-91	1/4W 10kΩ
R 201	117-1031-10	1/10W 10kΩ	R 509	111-4711-91	1/4W 470Ω	R 616	117-1231-10	1/10W 12kΩ
R 202	117-1031-10	1/10W 10kΩ	R 511	111-4731-91	1/4W 47kΩ	R 617	117-2721-10	1/10W 2.7kΩ
R 203	117-4731-10	1/10W 47kΩ	R 512	111-1031-91	1/4W 10kΩ	R 618	117-2231-10	1/10W 22kΩ
R 204	117-2231-10	1/10W 22kΩ	R 513	111-2291-91	1/4W 2.2Ω	R 621	117-1231-10	1/10W 12kΩ
R 205	117-1031-10	1/10W 10kΩ	R 514	111-2291-91	1/4W 2.2Ω	R 622	117-2721-10	1/10W 2.7kΩ
R 206	117-1021-10	1/10W 1kΩ	R 515	111-4711-91	1/4W 470Ω	R 623	117-2231-10	1/10W 22kΩ
R 207	117-1031-10	1/10W 10kΩ	R 517	111-1021-91	1/4W 1kΩ	R 624	117-4731-10	1/10W 47kΩ
R 208	117-1031-91	1/4W 10kΩ	R 518	111-1031-91	1/4W 10kΩ	R 627	111-3311-91	1/4W 330Ω
R 209	117-1031-91	1/4W 10kΩ	R 521	111-1021-91	1/4W 1kΩ	R 628	117-4731-10	1/10W 47kΩ
R 301	117-1021-10	1/10W 1kΩ	R 525	111-5691-91	1/4W 5.6Ω	R 701	117-1031-10	1/10W 10kΩ
R 302	117-3331-10	1/10W 33kΩ	R 526	111-5691-91	1/4W 5.6Ω	R 702	111-3331-91	1/4W 33kΩ
R 303	117-1031-10	1/10W 10kΩ	R 527	111-5691-91	1/4W 5.6Ω	R 703	111-3331-91	1/4W 33kΩ
R 401	117-1031-10	1/10W 10kΩ	R 528	111-1031-91	1/4W 10kΩ	R 704	111-3331-91	1/4W 33kΩ
R 402	117-1031-10	1/10W 10kΩ	R 529	111-2221-91	1/4W 2.2kΩ	R 705	111-3331-91	1/4W 33kΩ
R 403	117-1021-10	1/10W 1kΩ	R 530	117-1031-10	1/10W 10kΩ	R 706	117-1031-10	1/10W 10kΩ
R 404	117-1021-10	1/10W 1kΩ	R 531	111-2221-91	1/4W 2.2kΩ	S 101	060-0122-10	
R 406	117-1031-10	1/10W 10kΩ	R 532	111-1031-91	1/4W 10kΩ	T	092-9000-00	ANT
R 407	117-1231-10	1/10W 12kΩ	R 533	111-4721-91	1/4W 4.7kΩ	X 201	061-1064-00	4.50MHz
R 409	111-2211-91	1/4W 220Ω	R 534	111-1021-91	1/4W 1kΩ	X 301	016-3013-00	4.33MHz
R 410	117-3331-10	1/10W 33kΩ	R 535	117-8221-10	1/10W 8.2kΩ			
R 411	117-3321-10	1/10W 3.3kΩ	R 536	117-2231-10	1/10W 22kΩ			
R 412	111-1031-91	1/4W 10kΩ	R 601	117-3331-10	1/10W 33kΩ			
R 413	117-2231-10	1/10W 22kΩ	R 602	117-3331-10	1/10W 33kΩ			
R 414	117-3331-10	1/10W 33kΩ	R 603	117-8201-10	1/10W 82Ω			
R 415	117-1031-10	1/10W 10kΩ	R 604	117-1241-10	1/10W 120kΩ			
R 501	117-1031-10	1/10W 10kΩ	R 607	117-4721-10	1/10W 4.7kΩ			
R 502	111-1021-91	1/4W 1kΩ	R 608	117-4721-10	1/10W 4.7kΩ			
R 505	117-1531-10	1/10W 15kΩ	R 609	117-1241-10	1/10W 120kΩ			

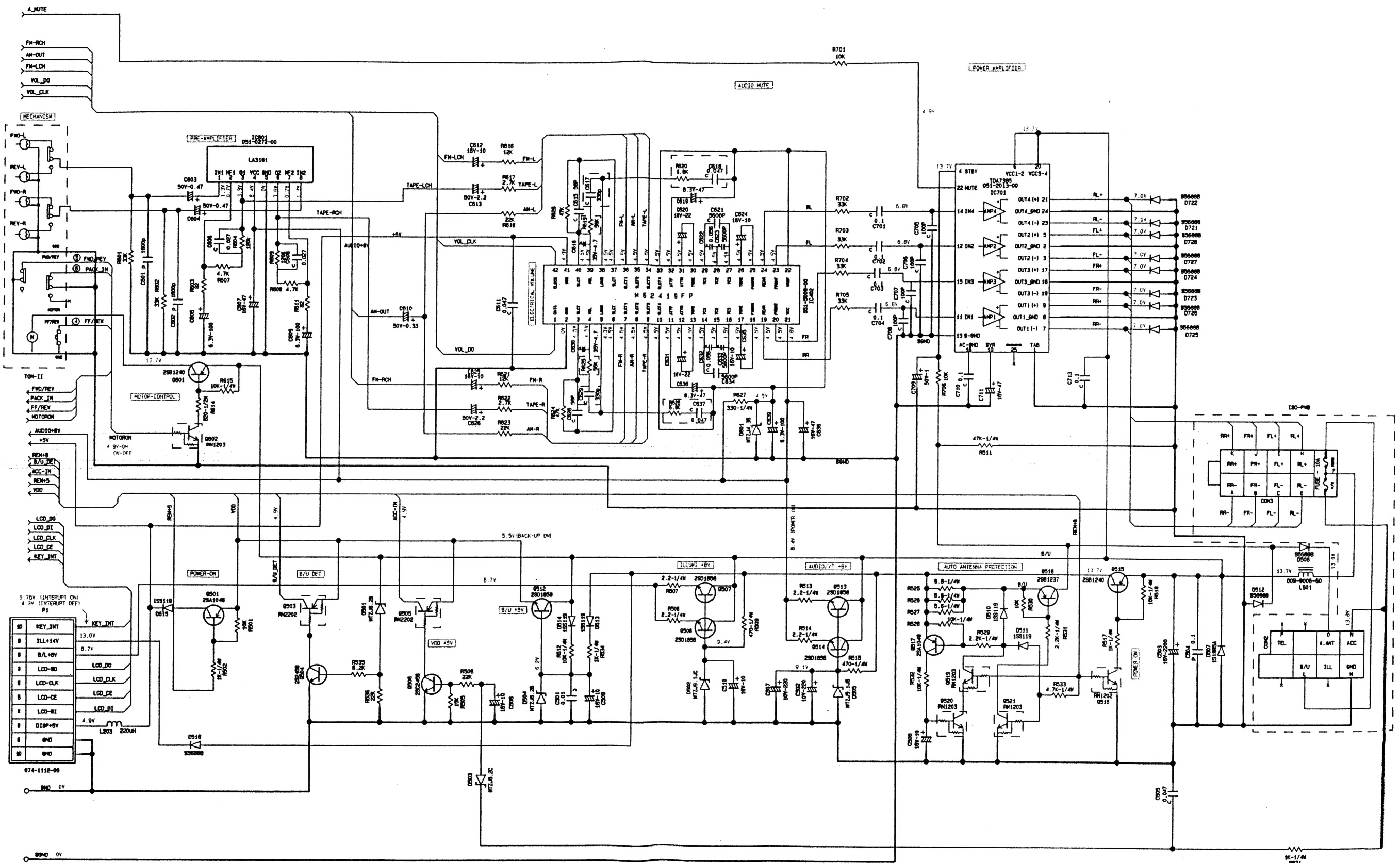
Switch PWB Section (B2)

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 1	178-1822-05	1800μF	R 2	117-2221-10	1/10W 2.2kΩ	S 8	013-6002-50	
C 2	178-4732-05	0.047μF	R 3	117-2221-10	1/10W 2.2kΩ	S 9	013-6002-50	
C 3	178-4732-05	0.047μF	R 4	117-3921-10	1/10W 3.9kΩ	S 10	013-6002-50	
C 4	178-4732-05	0.047μF	R 5	117-1241-10	1/10W 120kΩ	S 11	013-6002-50	
IC 1	051-6013-00	LC75854W	R 6	117-2221-10	1/10W 2.2kΩ	S 12	013-6002-50	
DCP1	076-0522-00	PLUG	R 7	117-1031-10	1/10W 10kΩ	S 13	013-6002-50	
PL 1	017-0410-00	14V40mA	R 8	117-6831-10	1/10W 68kΩ	S 14	013-6002-50	
PL 2	017-0410-00	14V40mA	S 1	013-6002-50		S 15	013-6002-50	
PL 3	017-0410-00	14V40mA	S 2	013-6002-50		SRSW1	016-9900-63	
PL 5	017-0441-00	9V85mA	S 4	013-6002-50				
PL 6	017-0441-00	9V85mA	S 5	013-6002-50				
R 1	117-2221-10	1/10W 2.2kΩ	S 6	013-6002-50				

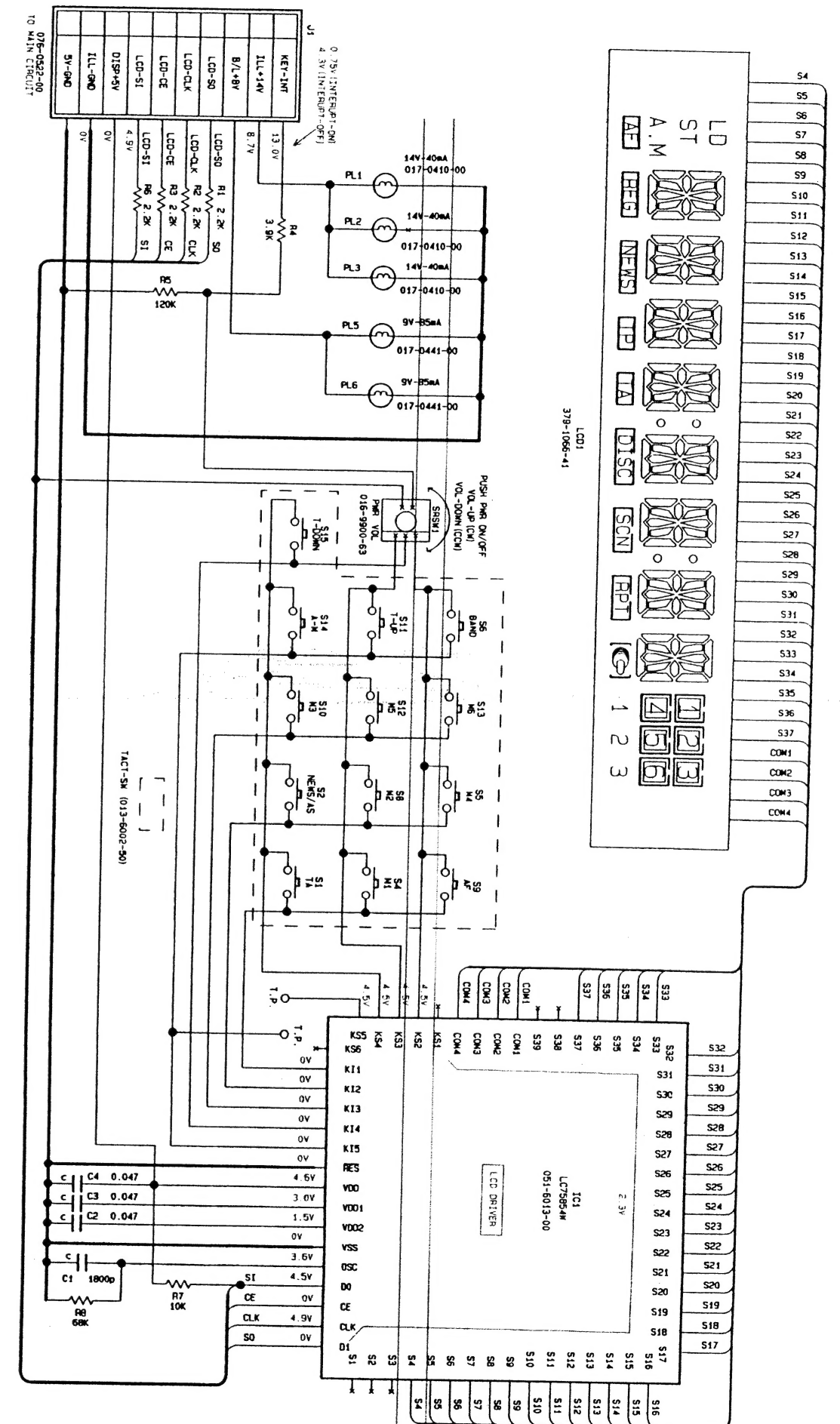
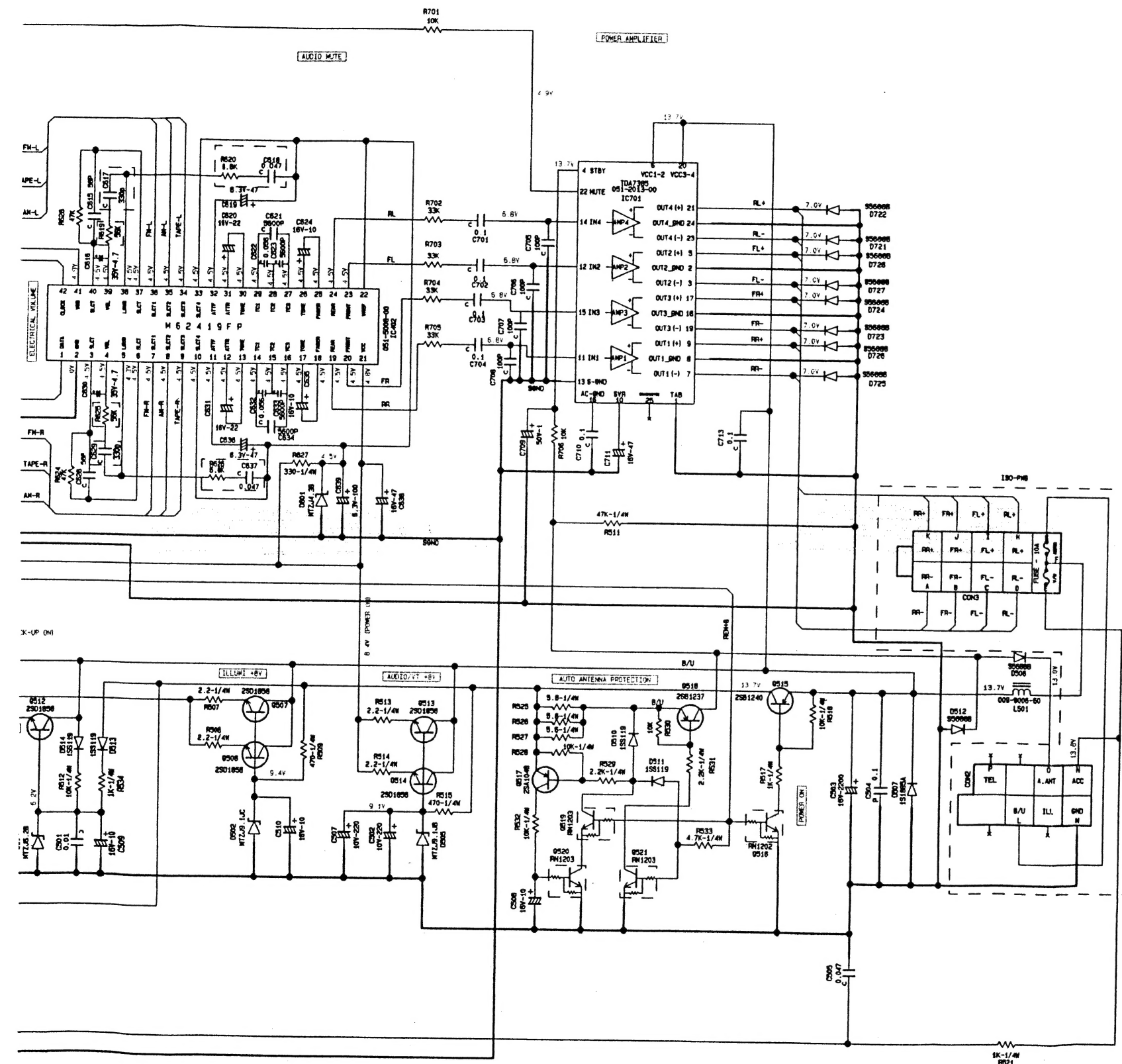
CIRCUIT DIAGRAM

Main / Connector P.W.B. section





Main / Connector section



EXPLODED VIEW • PART LIST

Main Section

Q	IC
Q101, Q102	
Q518	
Q104, Q103, Q302	
Q517	
Q301	
Q521	
Q515	
Q401, Q402	
Q514, Q513, Q516	IC601
Q519	
Q520	
Q404	IC401
Q501	IC405, IC701
Q304	IC501
Q512, Q602, Q601	IC301
Q505, Q506	
Q503, Q504	
Q508, Q507	

